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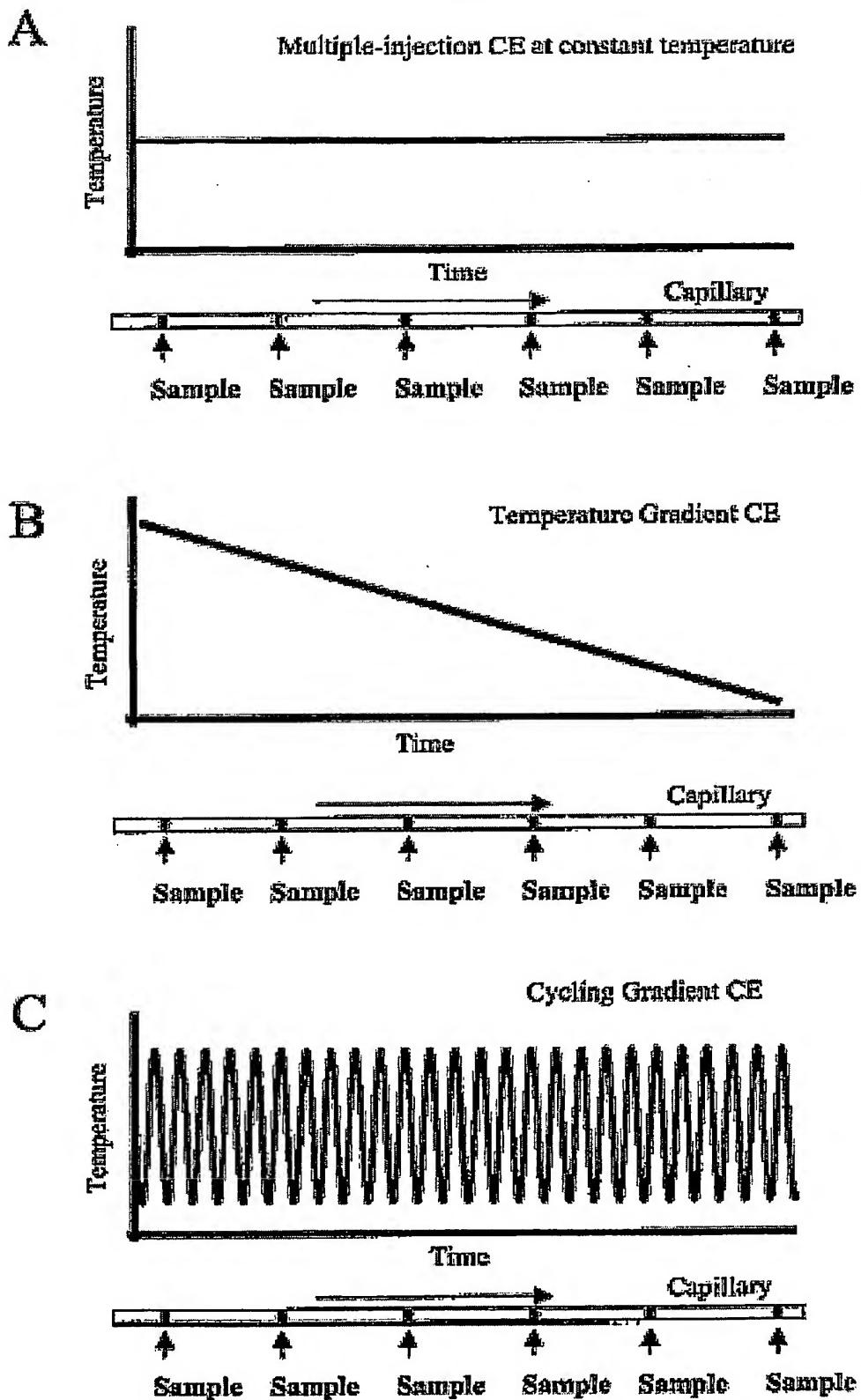
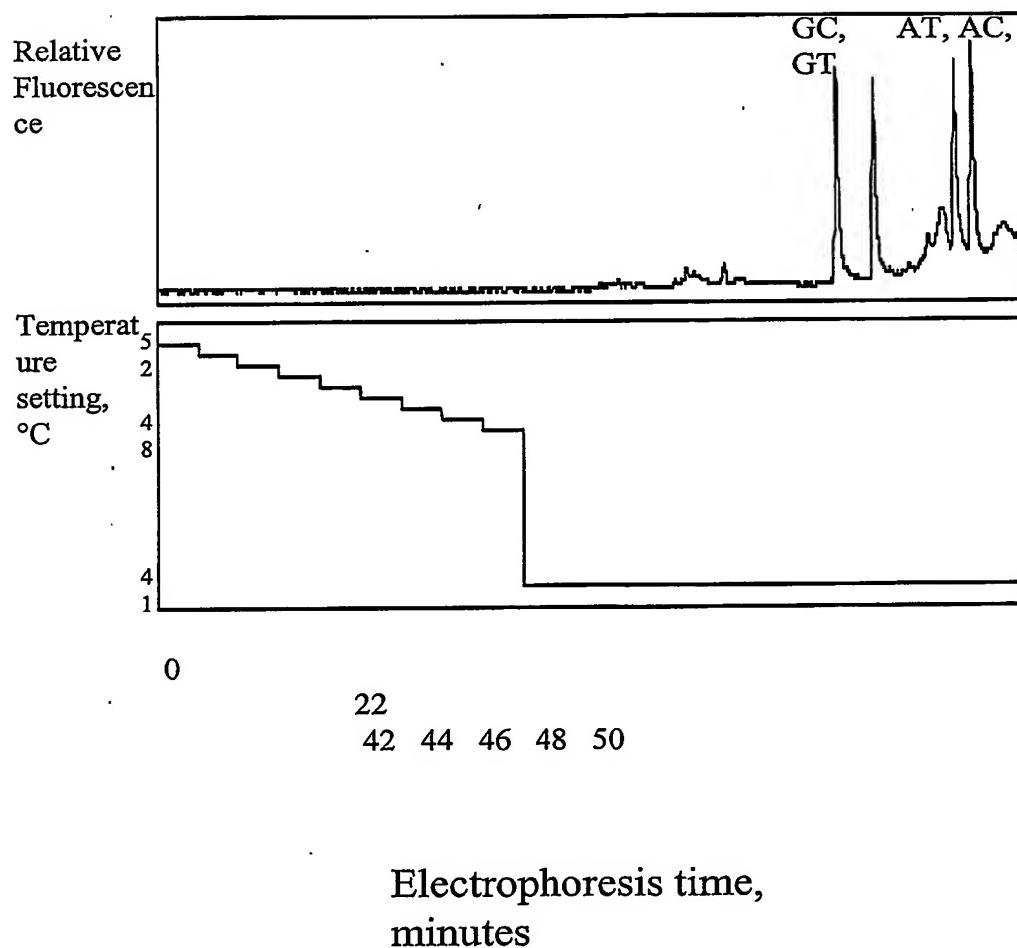


FIG. 1

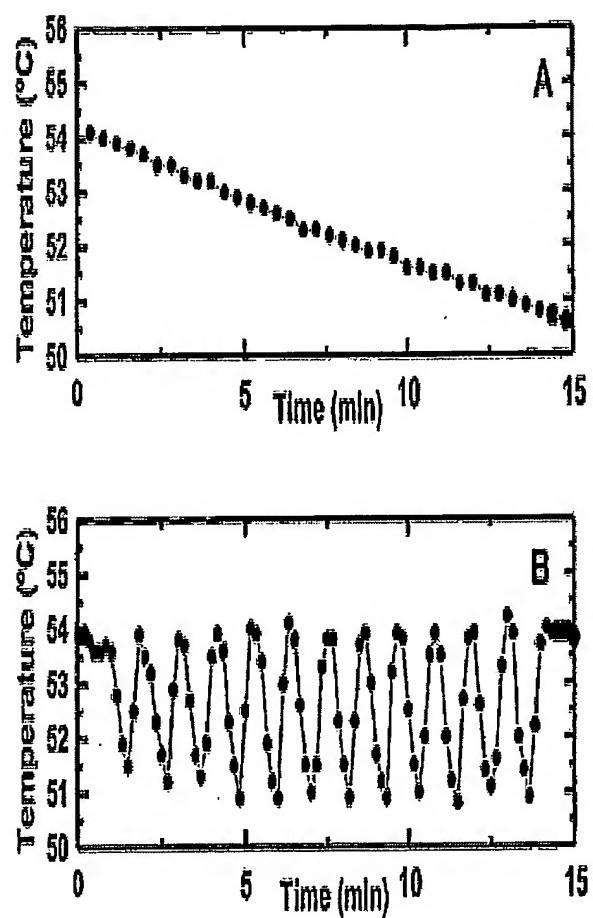
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FIG. 2



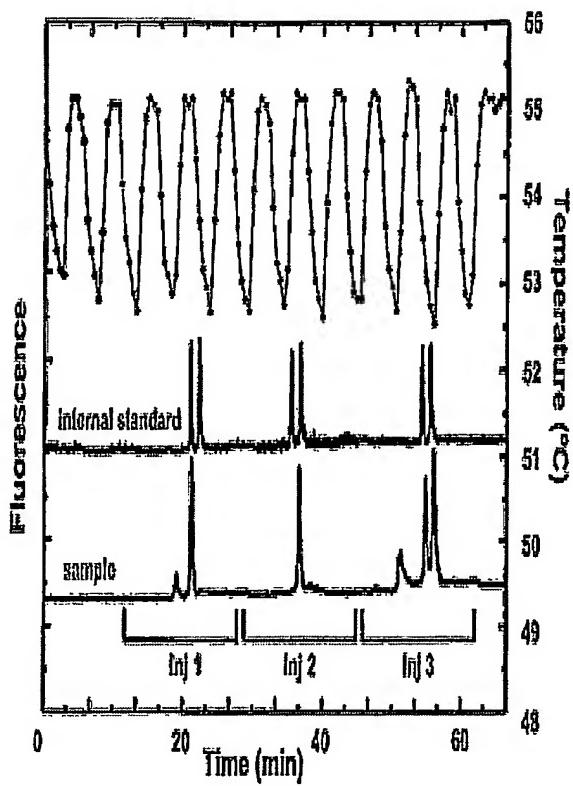
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FIG. 3



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FIG. 4



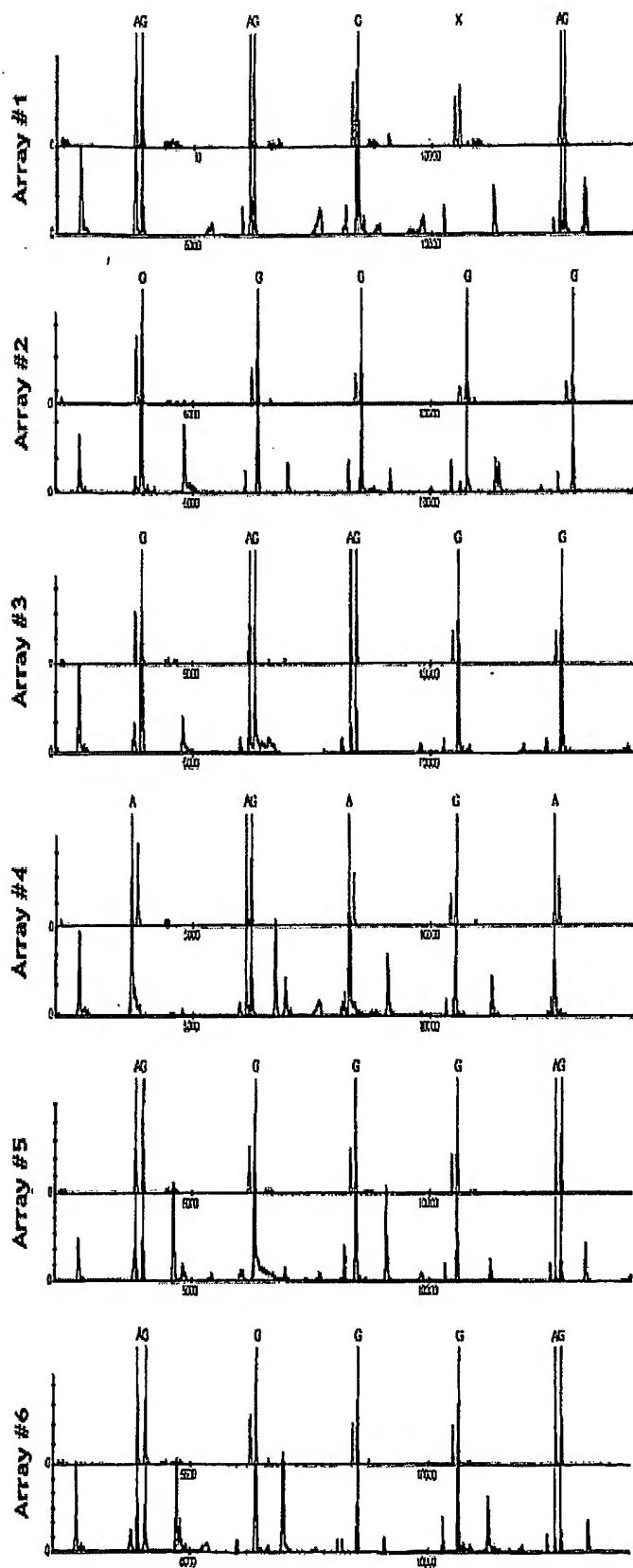
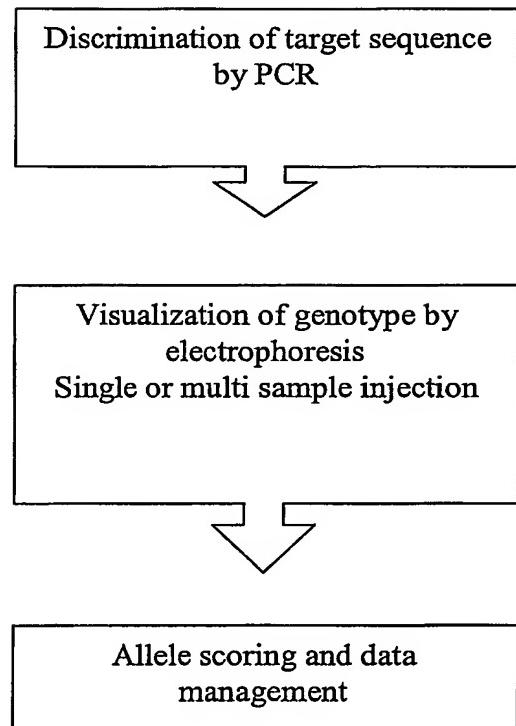


FIG. 5

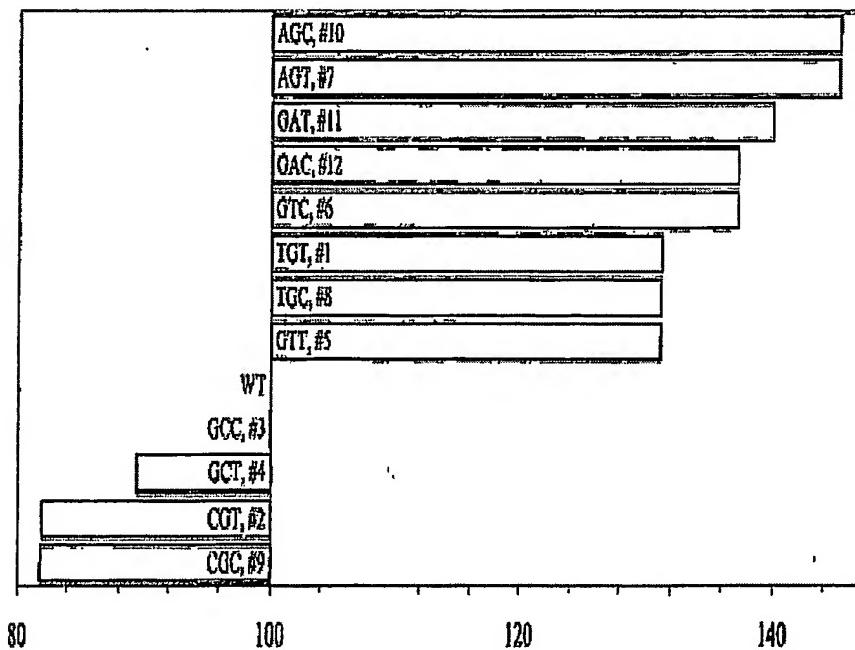
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FIG. 6



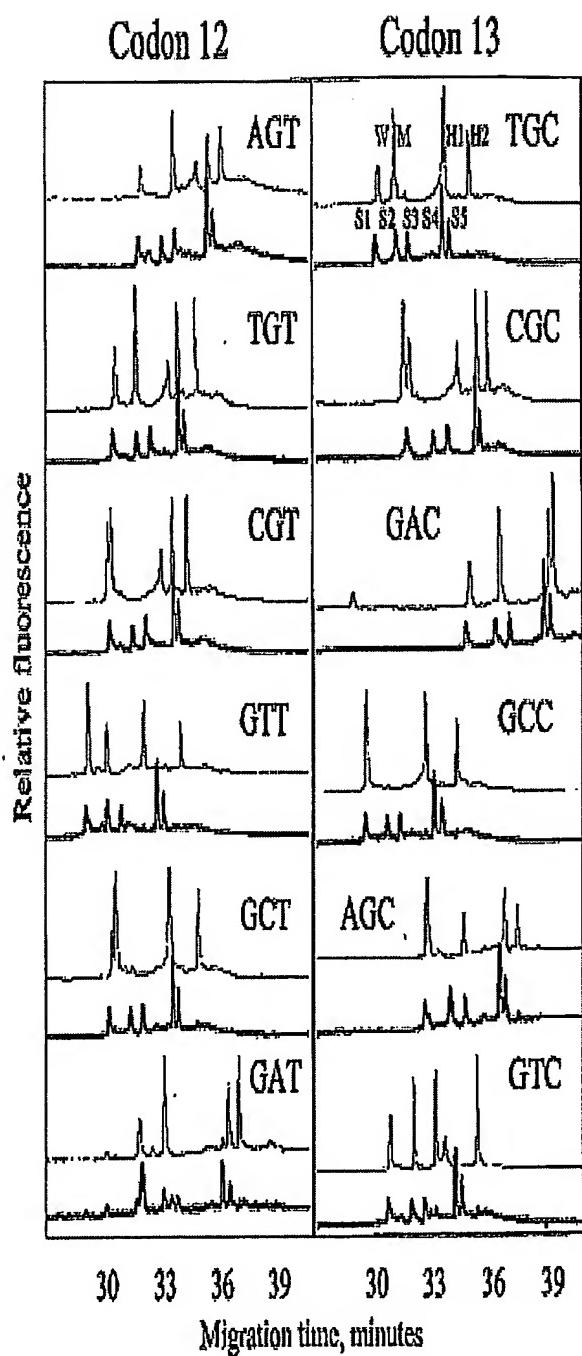
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FIG. 7



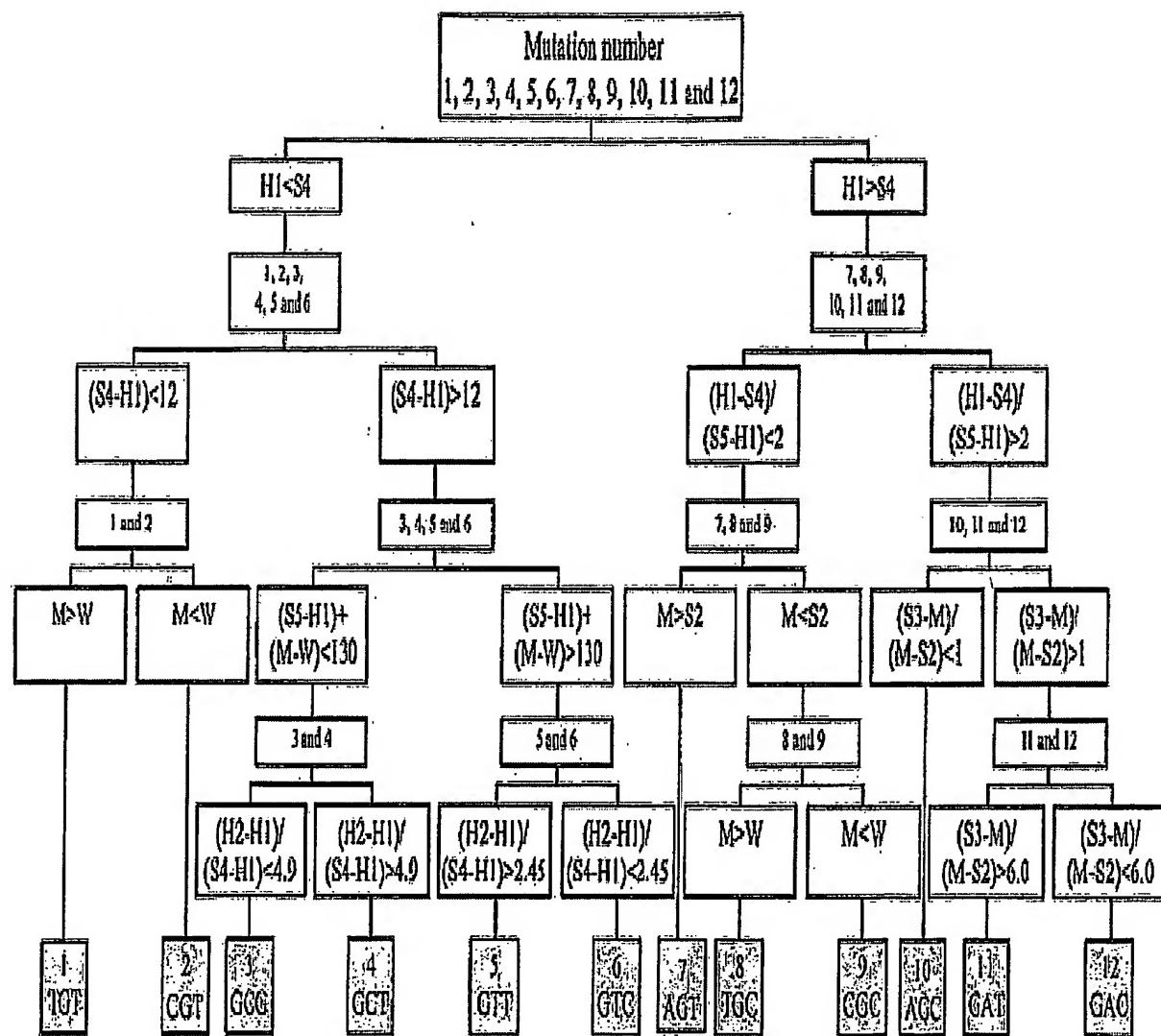
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FIG. 8



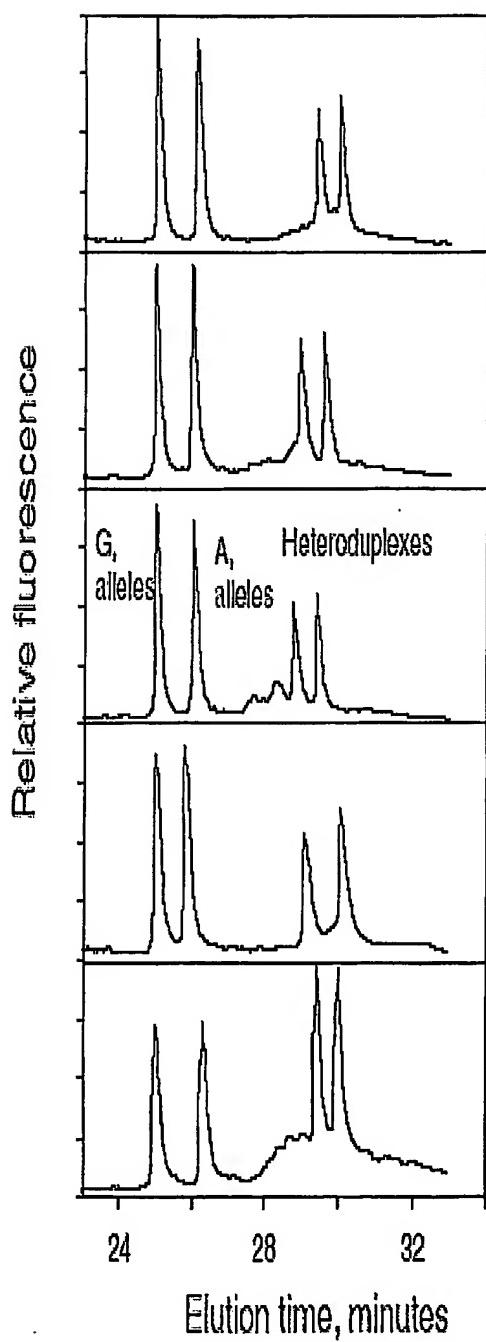
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FIG. 9



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FIG. 10



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FIG. 11

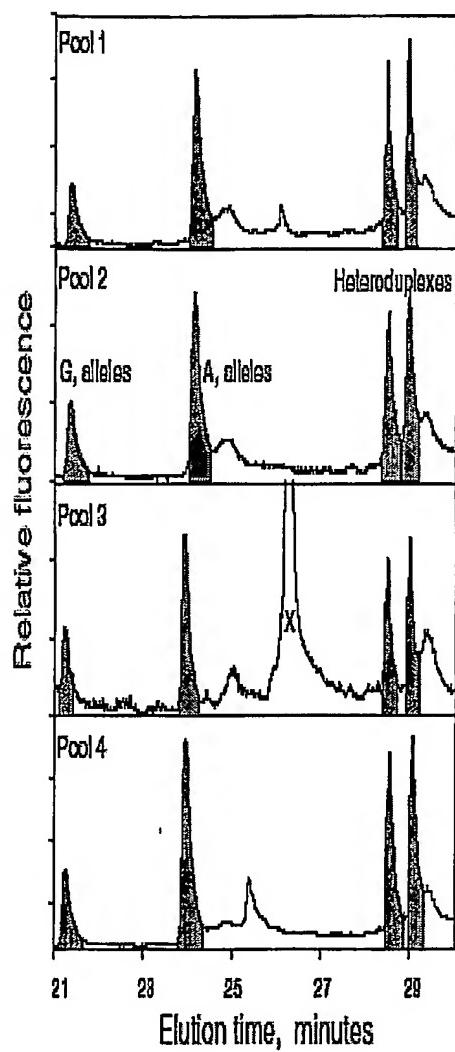


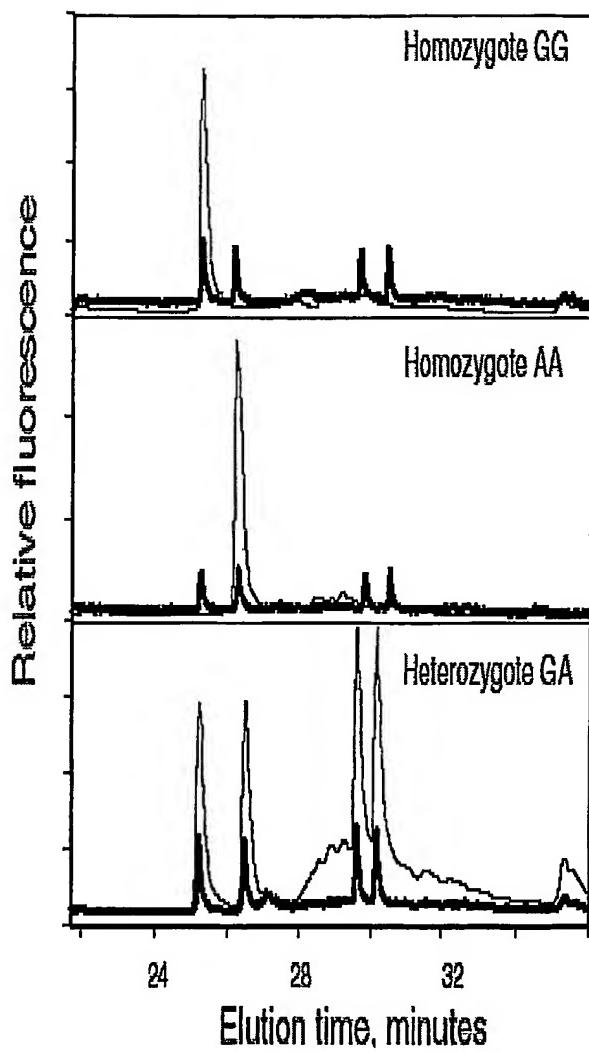
FIG. 12

Gene	Alleles		Genotypes		
	Major	Minor	Homozygote	Heterozygote	Homozygote
<i>TNF</i> (A _{major} , G _{minor})					
Pooled	63.1 (0.6)	36.9 (0.6)	30.8 (1.3)	46.6 (0.5)	13.6 (0.8)
Single samples	63.7	36.3	41.6	44.2	14.2
<i>IL-4</i> (G _{major} , T _{minor})					
Pooled	84.0 (0.4)	15.4 (0.4)	71.7 (1.5)	26.0 (1.2)	2.4 (0.3)
Single samples	84.8	15.2	72.1	25.3	2.5
<i>CTLA-4</i> (A _{major} , G _{minor})					
Pooled	55.1 (1.8)	44.9 (1.8)	30.2 (1.2)	48.5 (1.0)	20.3
Single samples	55.7	44.3	29.6	52.3	18.1

All values are given as a percentage. The variation in allele frequencies between the pools is given with 1 standard deviation. Genotypes for the pooled and single samples are estimated and observed, respectively.

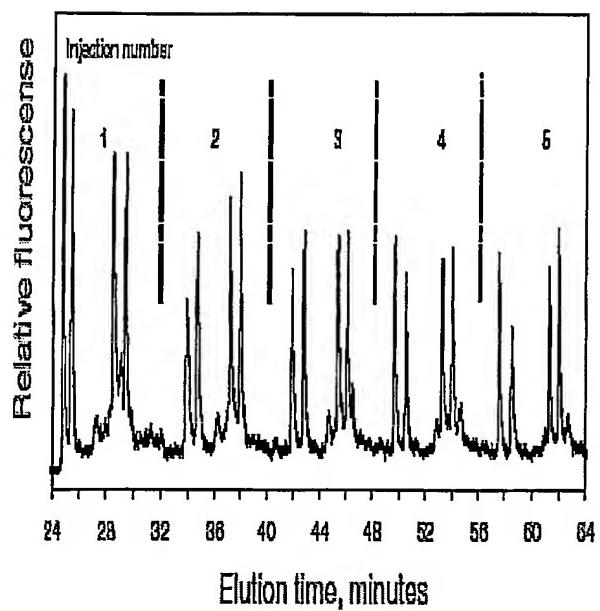
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FIG. 13



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FIG. 14



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FIG. 15

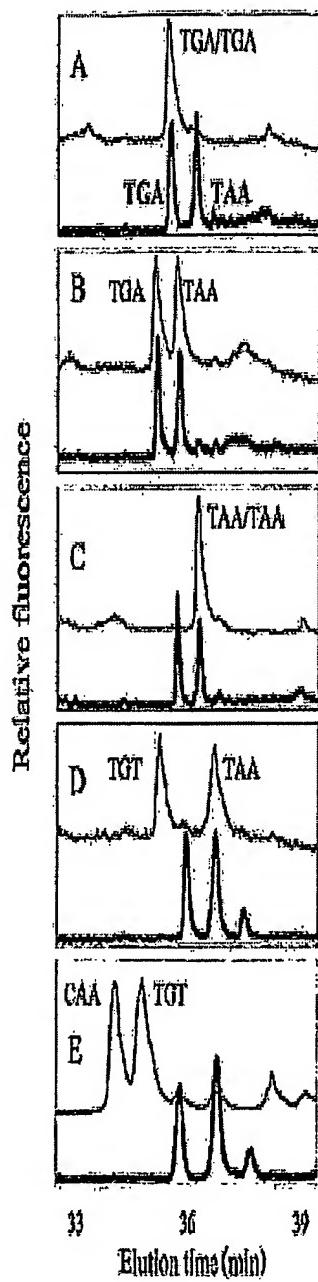


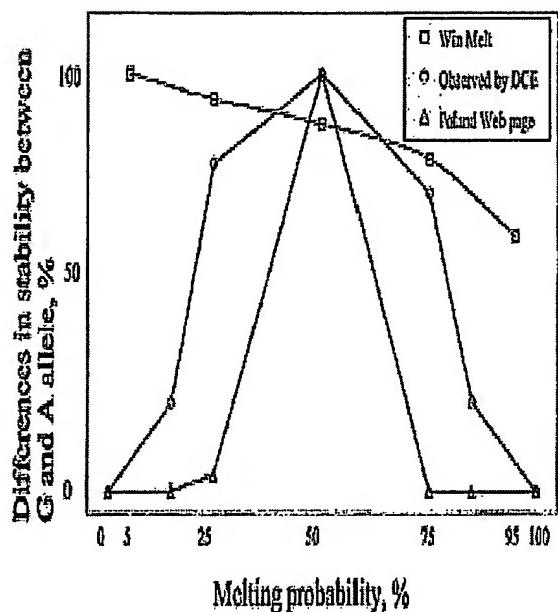
FIG. 16

Nucleotide sequence		Nucleotide sequence		Nucleotide sequence		Nucleotide sequence	
Position	Base	Position	Base	Position	Base	Position	Base
T	C	T	C	T	C	T	C
G	A	G	A	G	A	G	A
T	C	T	C	T	C	T	C
G	A	G	A	G	A	G	A
T	C	T	C	T	C	T	C
G	A	G	A	G	A	G	A

FIG. 17

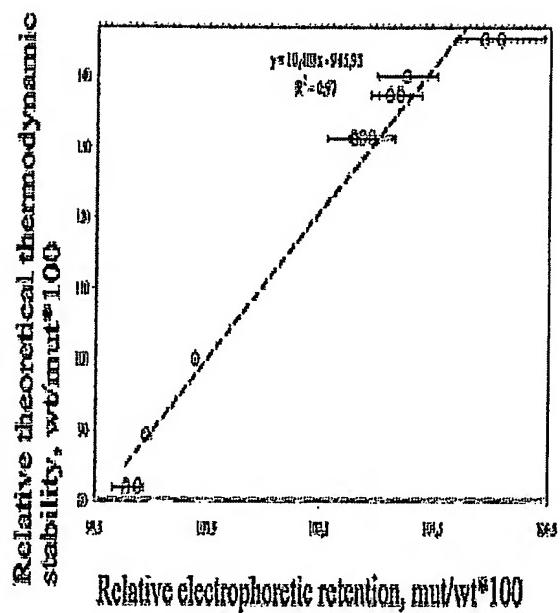
IVSSES (Y+O)	ITC	ITC	CC	C
Normal	5.83	3.83	3.29	2.1
Reactive cancer	1.2	2	9.79	3.0
SESS (G+R)	0.43	0.43	0.3	A
Normal	2.83	2.83	3.27	3.5
Reactive cancer	2	2	3.21	17.9
SESS (A+F)	1.2	1.2	1.7	7
Normal	3.51	3.51	3.93	4.1
Reactive cancer	1.51	1.51	1.03	0.0

FIG. 18



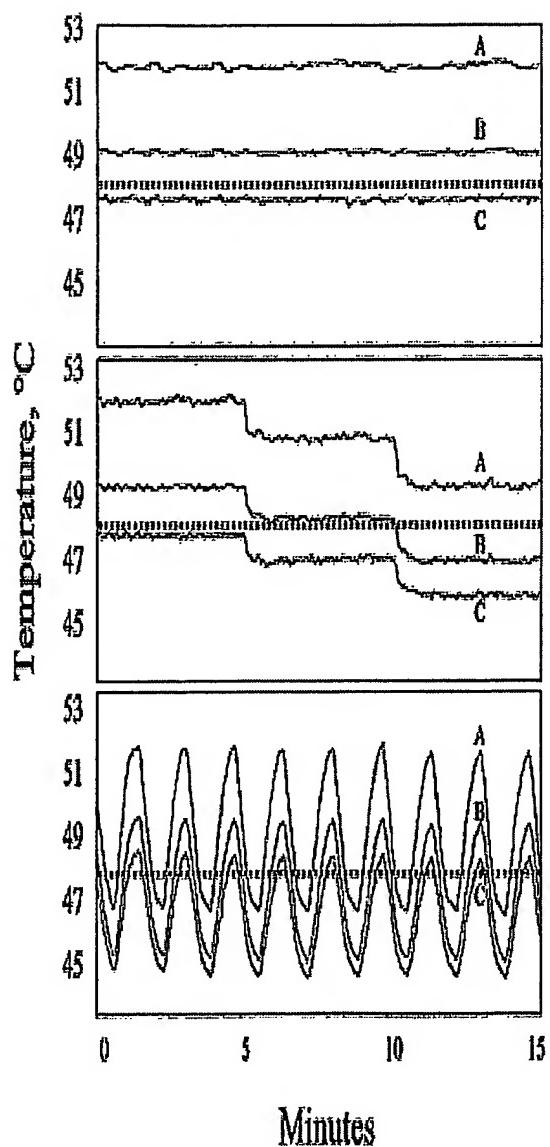
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FIG. 19



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FIG. 20



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FIG. 21

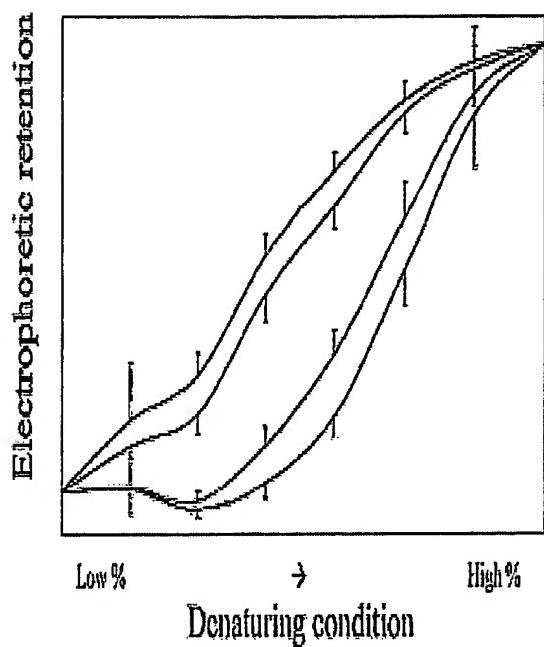
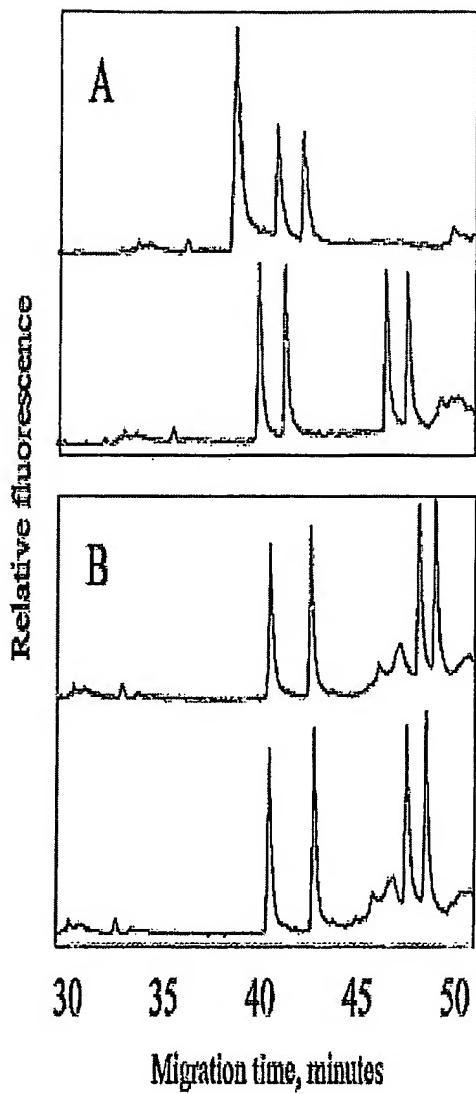
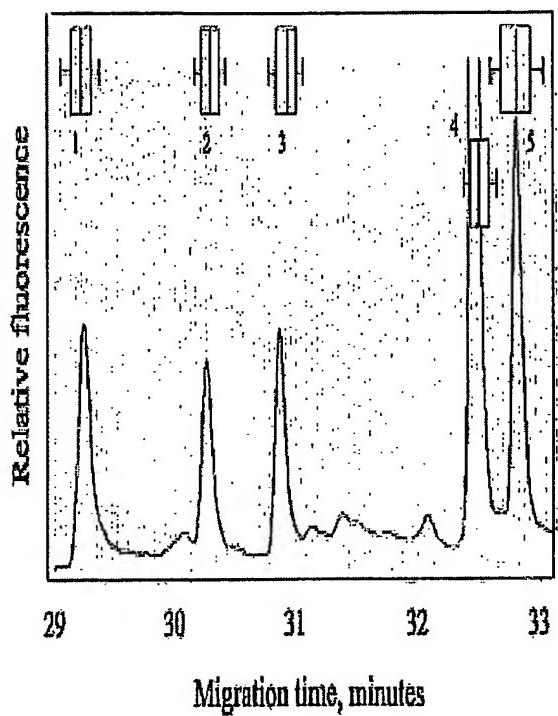


FIG. 22



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FIG. 23



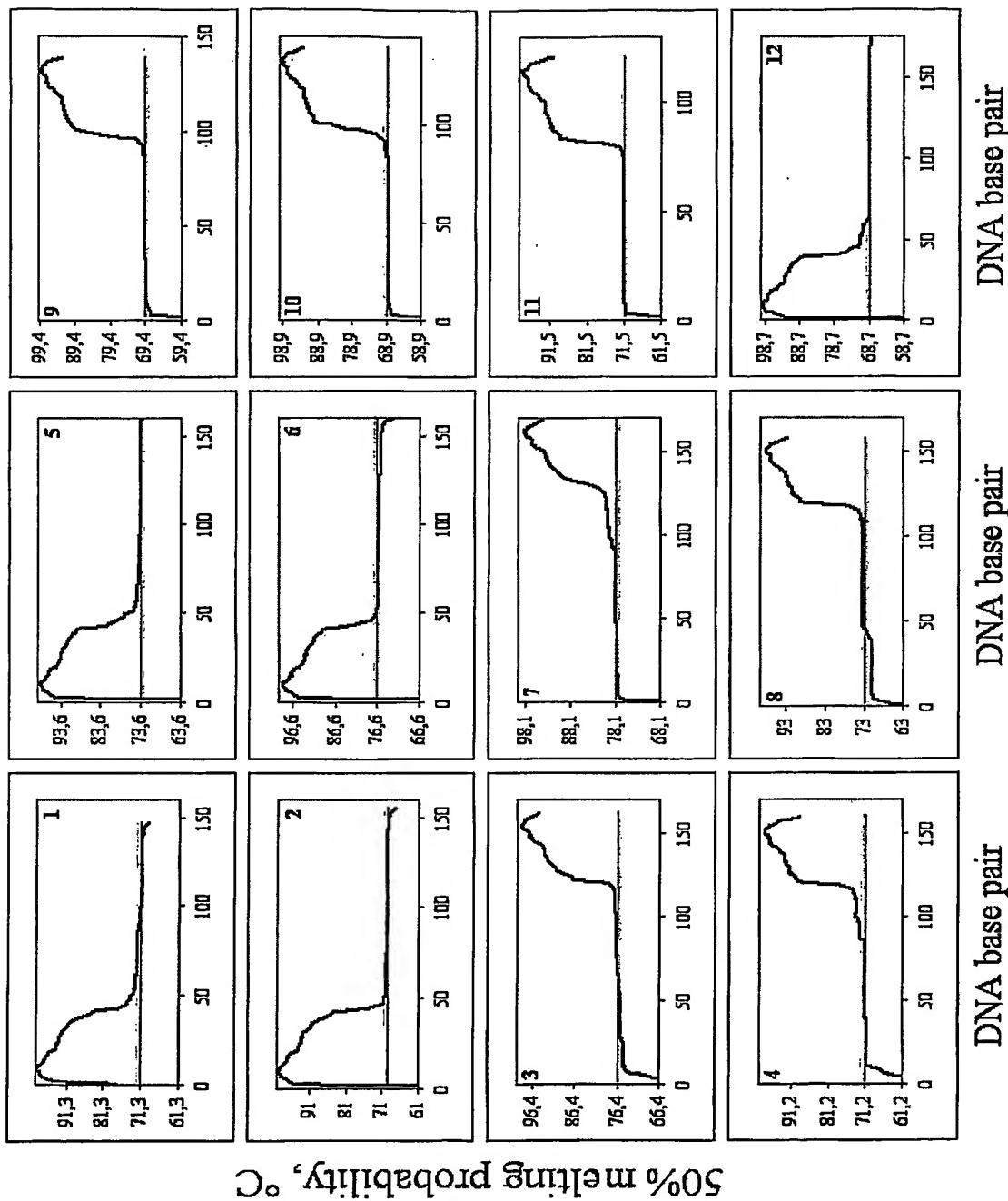


FIG. 24

DNA base pair

DNA base pair

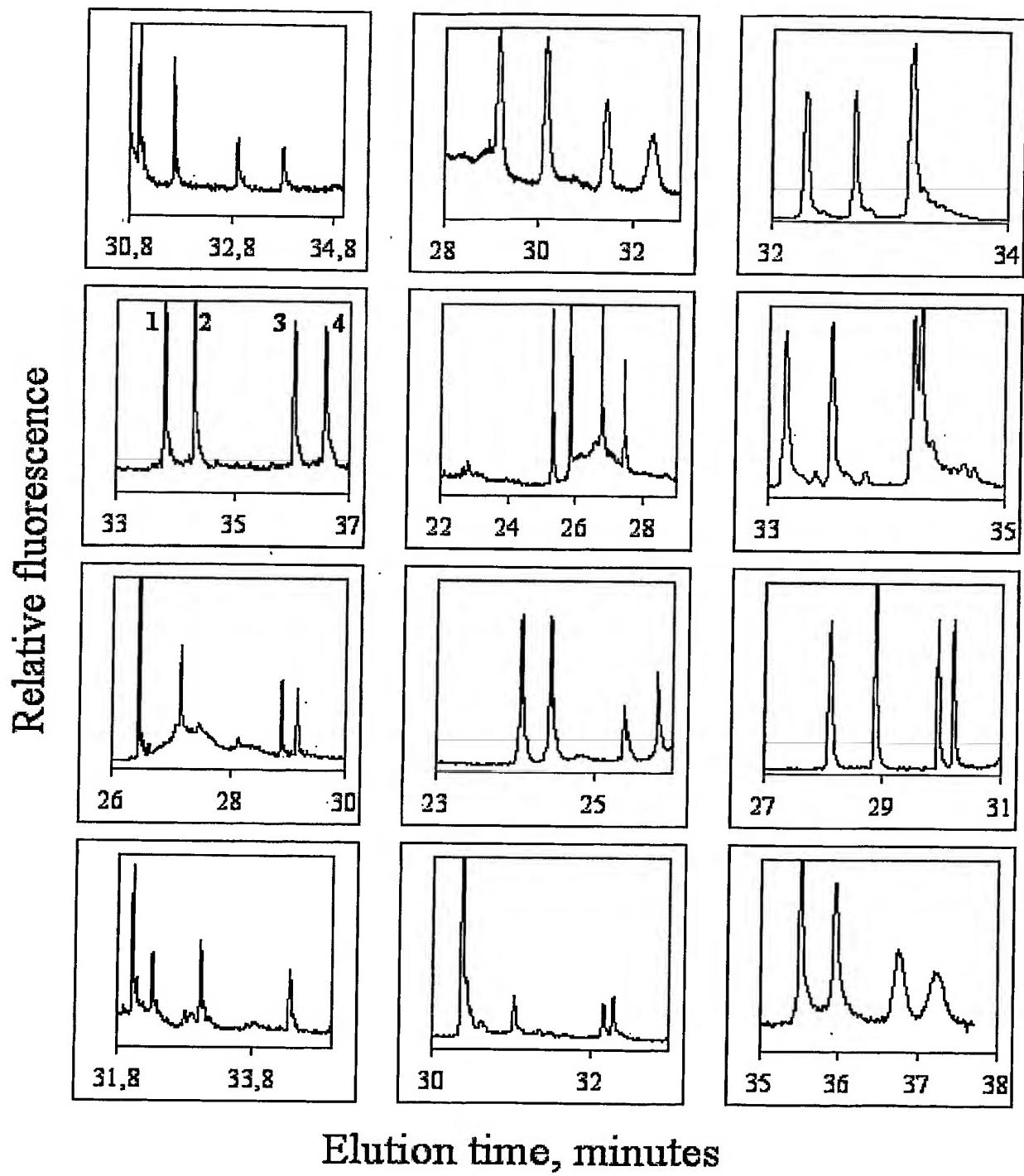


FIG. 25

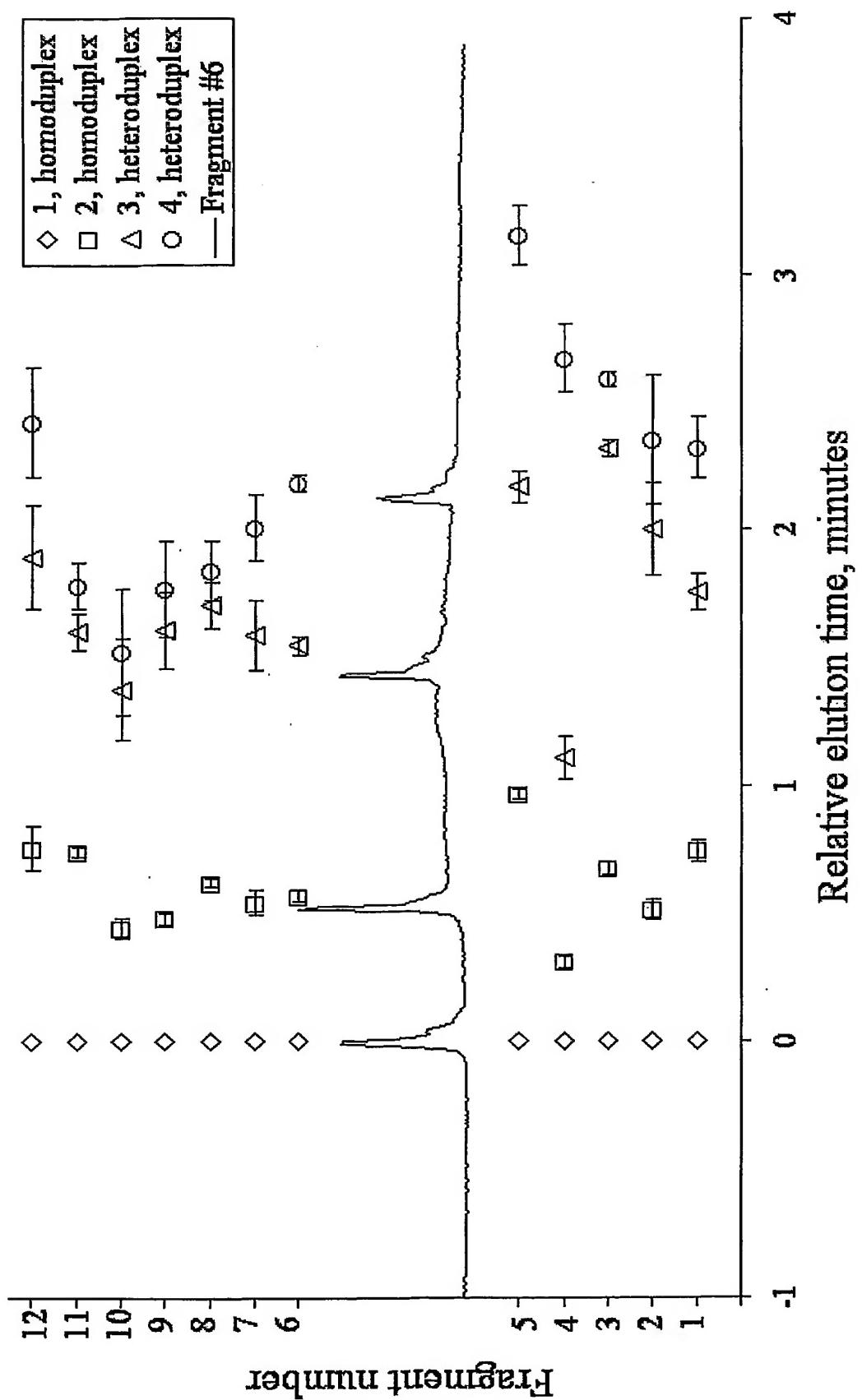


FIG. 26

FIG. 27

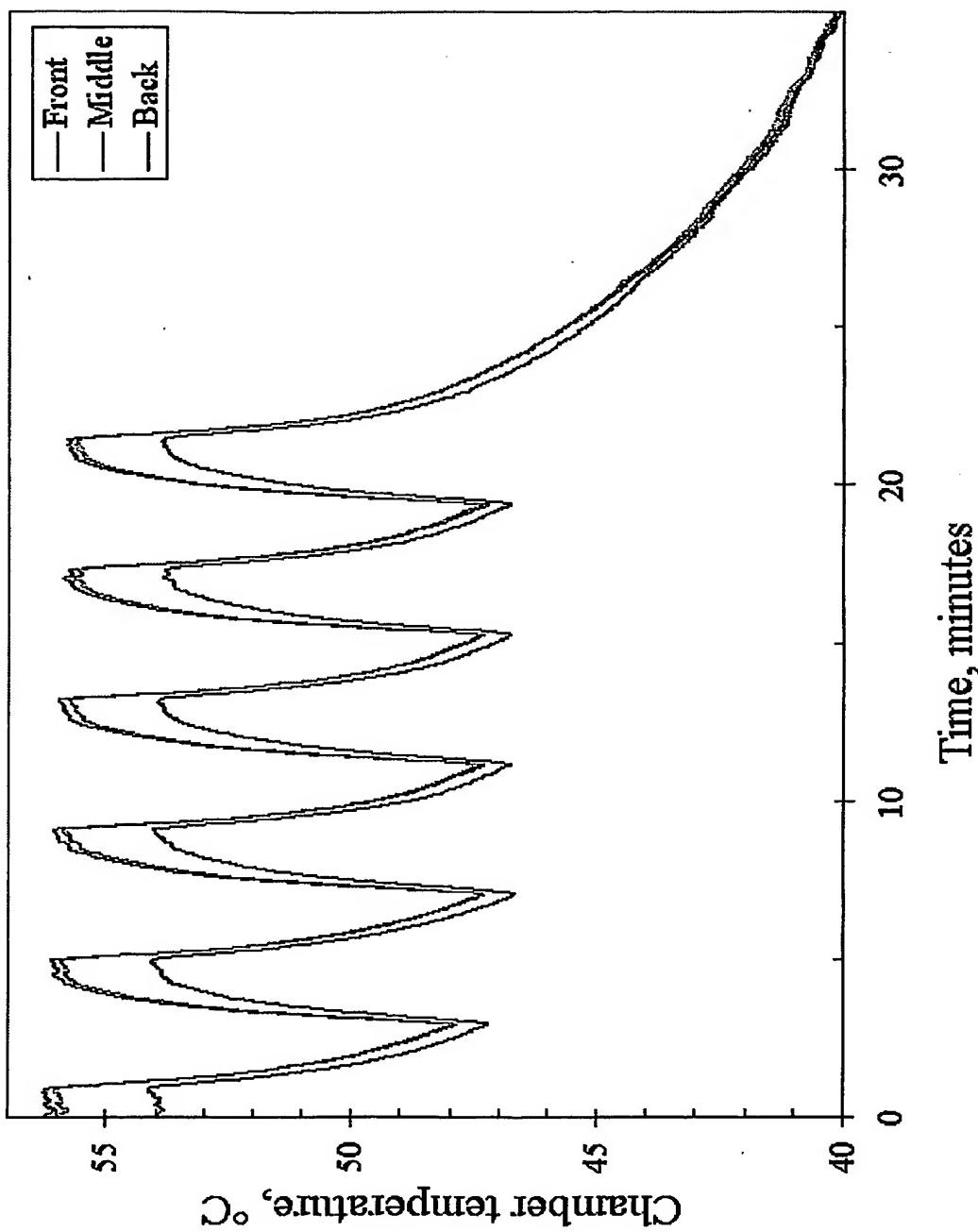


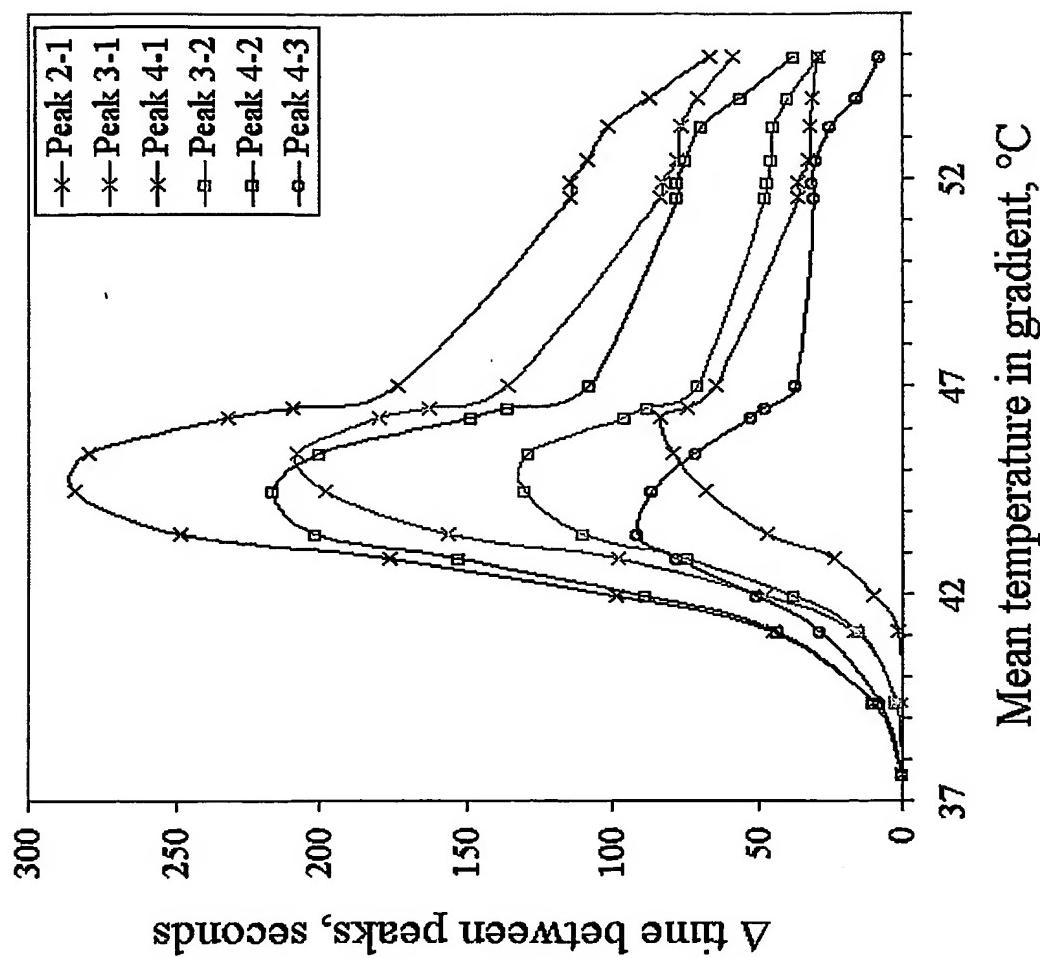
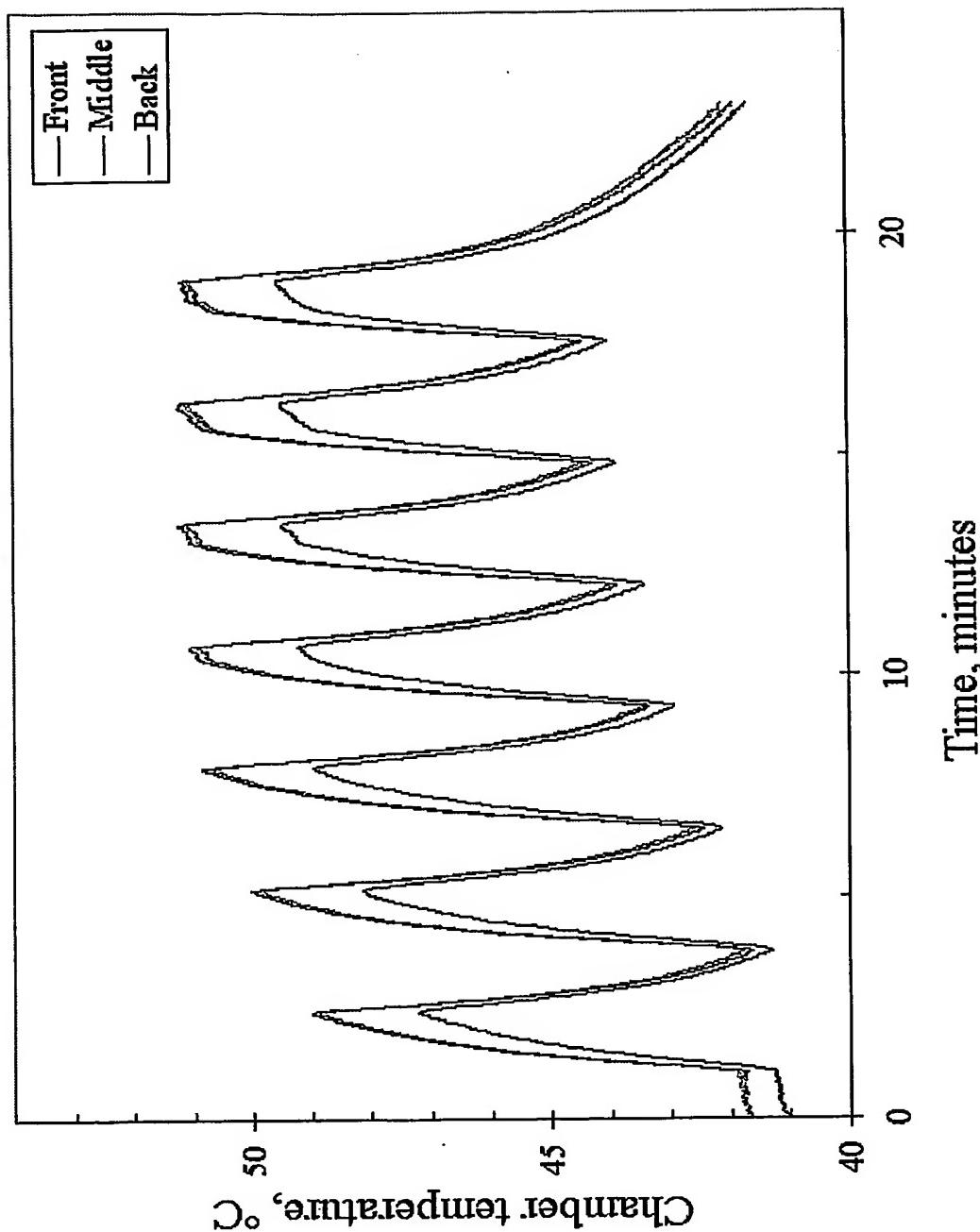
FIG. 28

FIG. 29

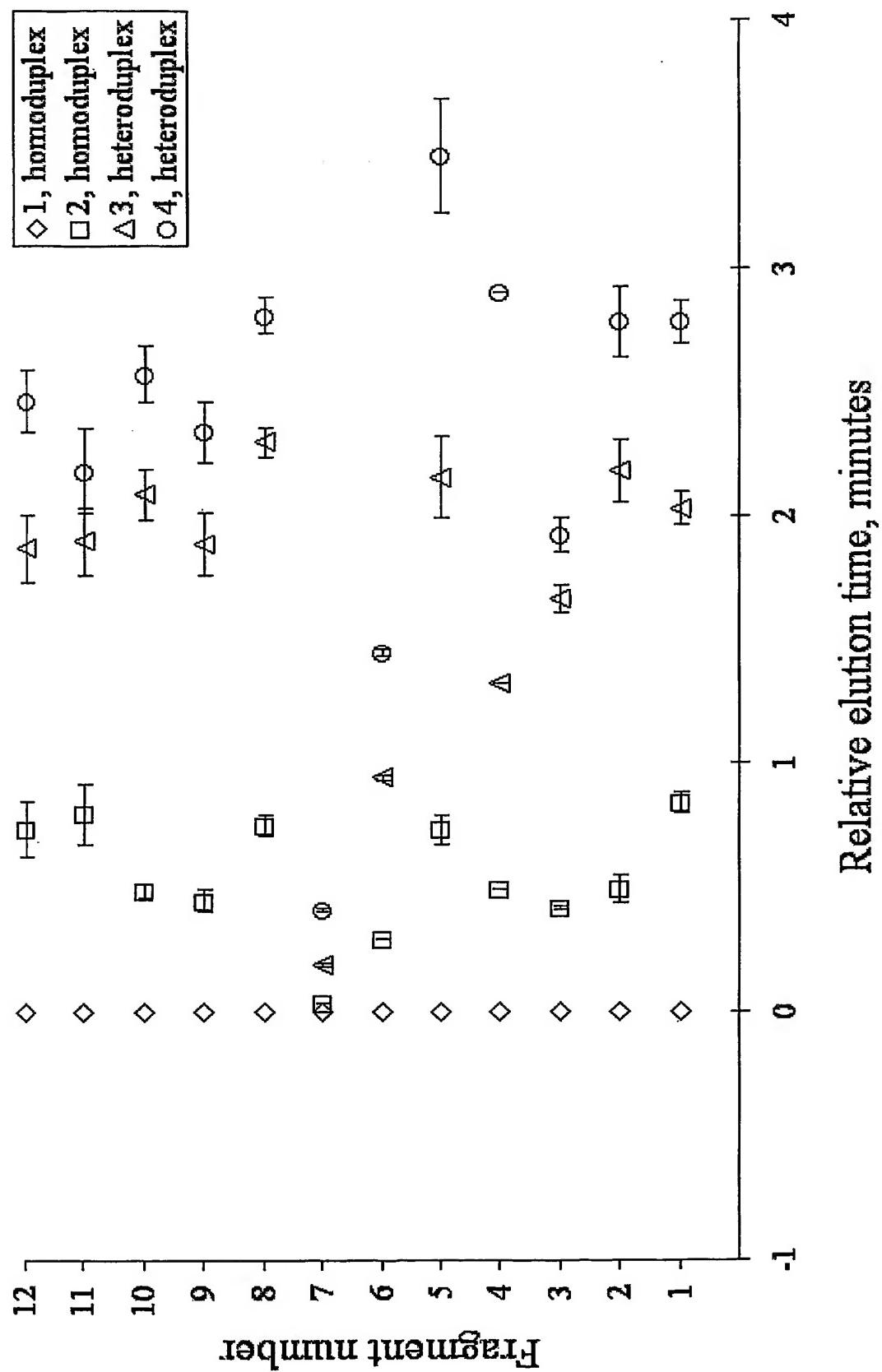


FIG. 30

FIG. 31

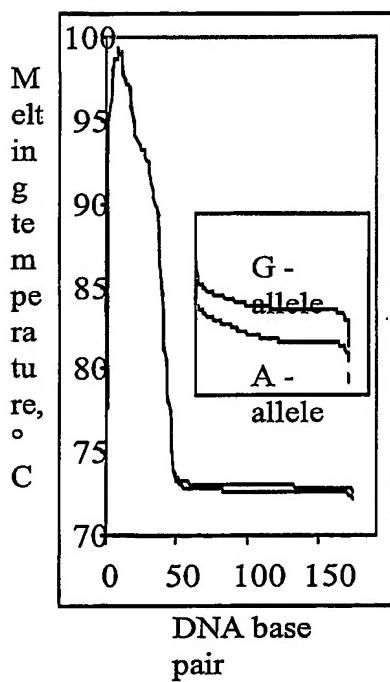
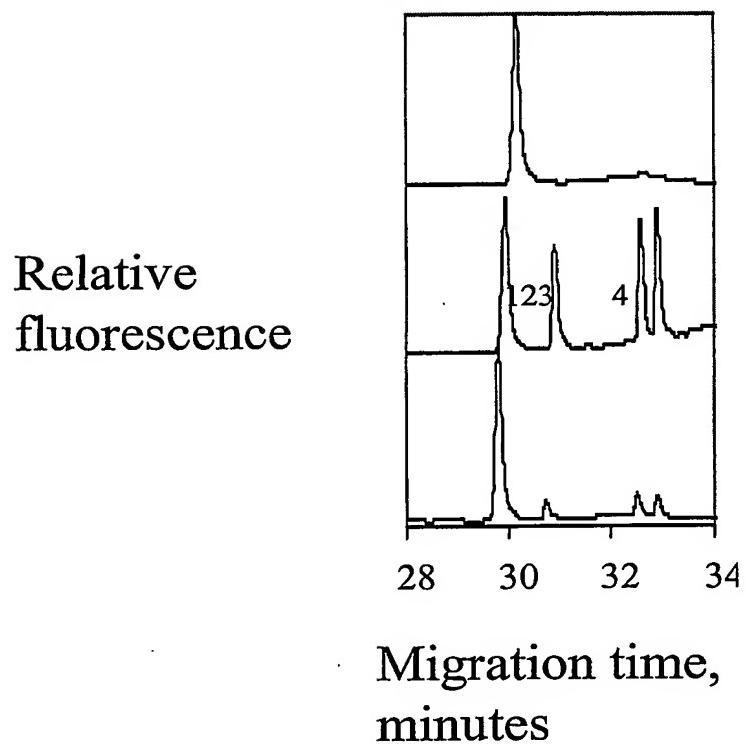
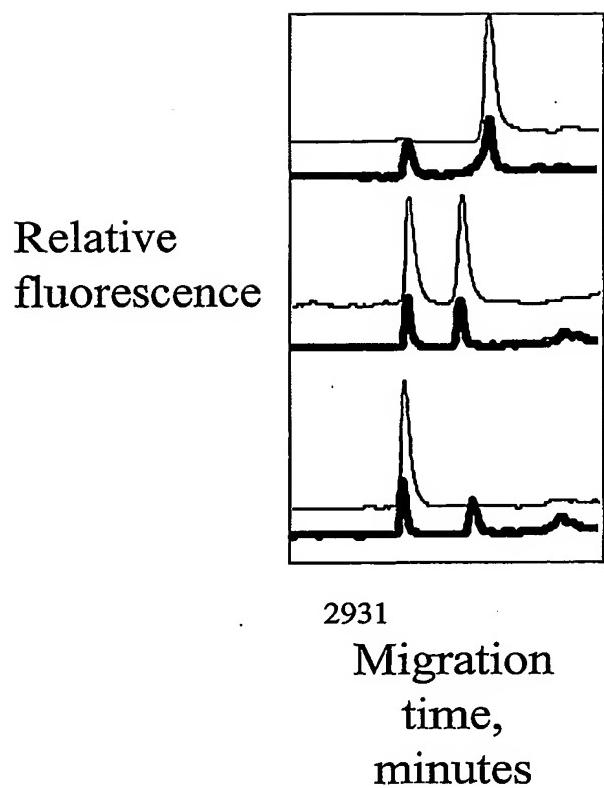


FIG. 32



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FIG. 33



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FIG. 34

Alleles
1 -----G-----C-----
Watson
-----C-----G-----
Crick
2 -----C-----C-----
Watson
-----G-----G-----
Crick
3 -----G-----T-----
Watson
-----C-----A-----
Crick
4 -----C-----T-----
Watson
-----G-----A-----
Crick

FIG. 35

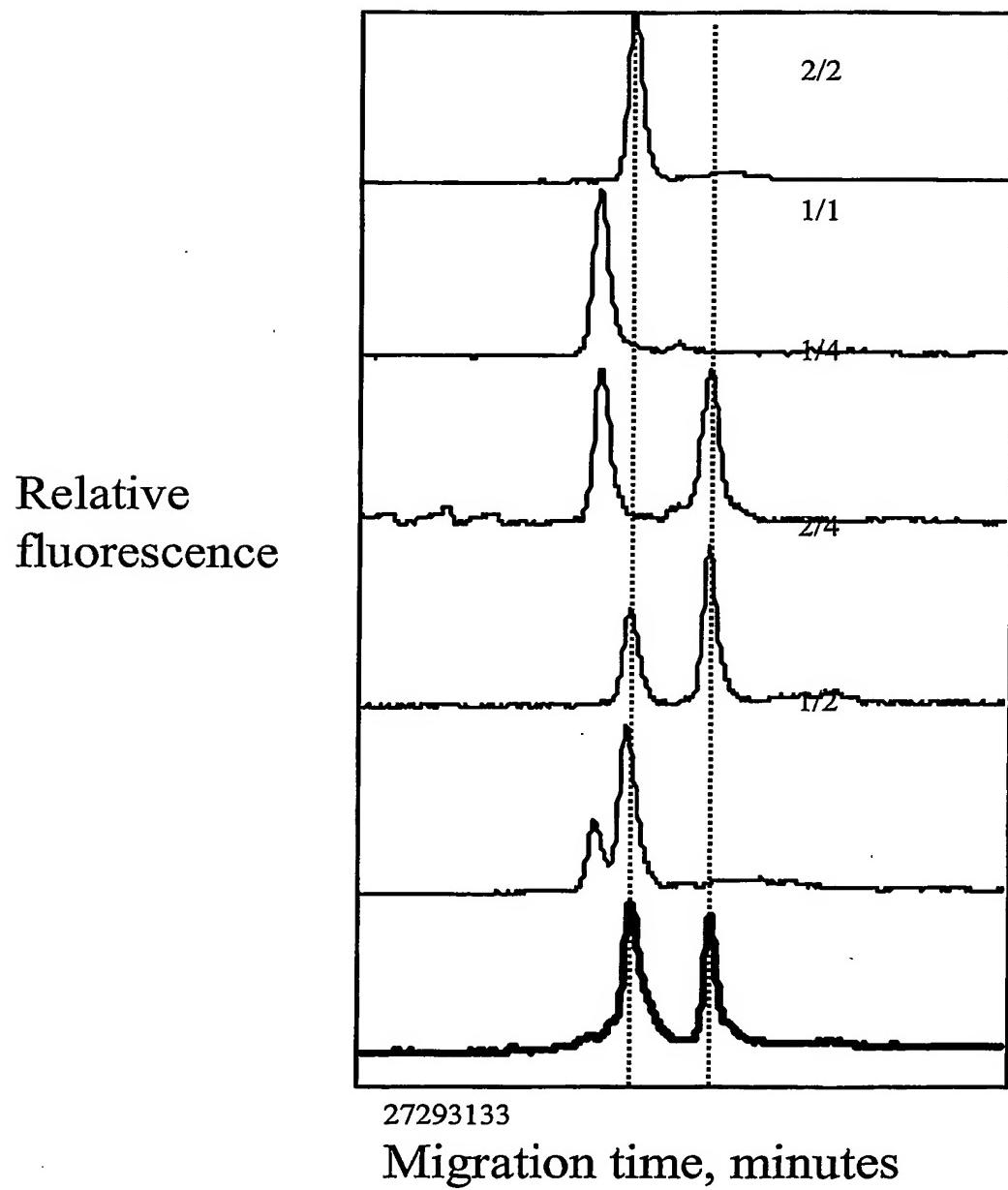
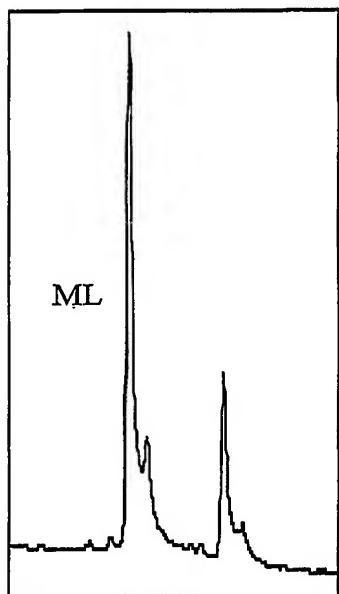


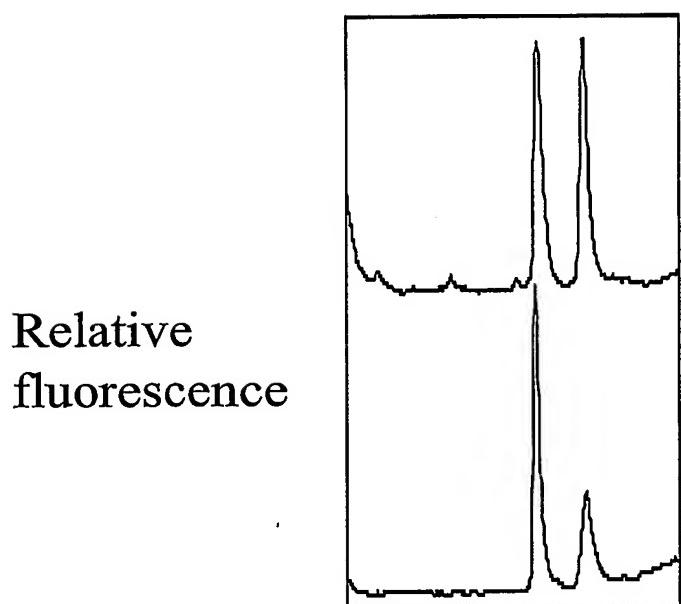
FIG. 36

Relative
fluorescence



2223
Migration time,
minutes

FIG. 37



Relative
fluorescence

27293133
Migration time,
minutes